



### **Service/Product Provider**

#### ***Prenova***

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Business: Energy Process Management Solutions  
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### **Industrial Partner**

#### ***Owens Corning***

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Business: Insulation, Composites, Roofing Mtrls  
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**Owens Corning saves several million dollars with minimal investment by using Prenova / OC's Energy Process Optimization.**

#### **Project Scope**

Owens Corning uses the Energy Process Optimization system at 11 of its facilities to identify and implement sustainable energy savings while achieving a return equaling over 3 times the cost of implementation.

#### **Project Summary**

The Energy Process Optimization System is a methodology that obtains energy savings by optimizing the use of existing manufacturing assets as a way to minimize the amount of capital required to achieve savings. Additionally, utility sub-metering was installed and sophisticated analytics were used to sustain the savings achieved and to provide a platform for continuous improvement.

- **Energy Savings**  
Annual energy savings exceeded several million dollars with a 7% reduction in total energy consumption.
- **Investment**  
The initial total capital/expense investment was \$1.3 million after applying \$775,000 in rebate funding.
- **Financial Return**  
The average payback was less than three months, exceeding the savings-to-cost goal.
- **Other Benefits**  
Reduced maintenance and raw materials, best practices identified, increased employee awareness, improved the energy culture, dedicated Energy Manager assigned at each plant, and reduced overall manufacturing variability.

#### **Monitoring & Verifying Energy Savings**

Prenova compared post-project usage with a pre-optimization baseline for each plant by using regression analysis. Utility consumption was normalized for production metrics, site characteristics and weather conditions.

#### **Distinguishing Value**

Prenova's hands-on approach, professionalism, and expertise helped Owens Corning to realize energy savings by using Prenova's experts to motivate Owens Corning staff.